



## SEQUENCE LISTING

<110> MIROCHNITCHENKO, Oleg  
WEI, Jiang  
INOUE, Masayori

<120> SOLUBLE ISCHEMIA ACTIVATED PROTEIN

<130> 266/171

<140> US 09/960,631

<141> 2001-09-20

# 6

<150> US 60/233,819

<151> 2000-09-20

<160> 8

<170> PatentIn version 3.1

<210> 1

<211> 840

<212> DNA

<213> Homo sapiens

<400> 1

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gcggcccccgg gcgcccccgt gttgcggctc cggggagcg gggccgtgca ggccgcgagc 180  
ccggagcgcg ccggctggac cgaggcgctg cggggccggg tggccgagct ggcgcggc 240  
gcccgtgtgg cctgtcccac cgatacgctg tacggcctgg cctgcgcggc gagctgctcg 300  
gcgcgtctgc gcgcgtgtga ccgcctcaag ggtgcagcg aggccaagcc tctggccgta 360  
tgcctcgccg cgcgtggccga cgtctacaga tactgccgtg tgagagtacc tgaggggctc 420  
ctgaaagacc tactgccagg accagtgacc ctggatgg aacgctcgaa ggagctcaac 480  
aaggacctaa accctttac gcctttgtga ggcattcgaa ttctgtatca tgctttatg 540  
caagacttgg ctcagatgtt tgagggtccg cttgtctca ctatgtccaa cctcagctcc 600  
caggccagtt ctctgaatgt cgaggagttc caggatctc gcctcgtt gtccttgg 660  
attgatgggg gacaaattgg ggtggccag agcccgagt gtcgccttgg ctcaactgtg 720  
gttatttgtt ctgtccccgg aaagttggc atcatcgctc caggctgtgc cctggaaagt 780  
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<210> 2

<211> 279

<212> PRT

<213> Homo sapiens

<400> 2

Met Ser Pro Ala Arg Arg Cys Arg Gly Met Arg Ala Ala Val Ala Ala  
1 5 10 15  
Ser Val Gly Leu Ser Glu Gly Pro Ala Gly Ser Arg Ser Gly Arg Leu  
20 25 30  
Phe Arg Pro Pro Ser Pro Ala Pro Ala Ala Pro Gly Ala Arg Leu Leu  
35 40 45  
Arg Leu Pro Gly Ser Gly Ala Val Gln Ala Ala Ser Pro Glu Arg Ala  
50 55 60  
Gly Tyr Thr Glu Ala Leu Arg Ala Ala Val Ala Glu Leu Arg Ala Gly

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65	70	75	80
Ala Val Val Ala Val Pro Thr Asp Thr	Leu Tyr Gly Leu Ala Cys Ala		
85	90	95	
Ala Ser Cys Ser Ala Ala Leu Arg Ala Val Tyr Arg Leu Lys Gly Arg			
100	105	110	
Ser Glu Ala Lys Pro Leu Ala Val Cys Leu Gly Arg Val Ala Asp Val			
115	120	125	
Tyr Arg Tyr Cys Arg Val Arg Val Pro Glu Gly Leu Leu Lys Asp Leu			
130	135	140	
Leu Pro Gly Pro Val Thr Leu Val Met Glu Arg Ser Glu Glu Leu Asn			
145	150	155	160
Lys Asp Leu Asn Pro Phe Thr Pro Leu Val Gly Ile Arg Ile Pro Asp			
165	170	175	
His Ala Phe Met Gln Asp Leu Ala Gln Met Phe Glu Gly Pro Leu Ala			
180	185	190	
Leu Thr Ser Ala Asn Leu Ser Ser Gln Ala Ser Ser Leu Asn Val Glu			
195	200	205	
Glu Phe Gln Asp Leu Tyr Pro Gln Leu Ser Leu Val Ile Asp Gly Gly			
210	215	220	
Gln Ile Gly Asp Gly Gln Ser Pro Glu Cys Arg Leu Gly Ser Thr Val			
225	230	235	240
Val Asp Leu Ser Val Pro Gly Lys Phe Gly Ile Ile Arg Pro Gly Cys			
245	250	255	
Ala Leu Glu Ser Thr Thr Ala Ile Leu Gln Gln Lys Tyr Gly Leu Leu			
260	265	270	
Pro Ser His Ala Ser Tyr Leu			
275			

<210> 3  
<211> 1387  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc\_feature  
<222> (1)..(1387)

<223> The letter "n" stands for a substitution base.

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ggTCGCTTG ctctcactAG tgccAACCTC agctcccAGG ccAGTTCTCT	gaatgtcGAG	180	
gaggTCCAGG atctctggCC tcAGTTGTCC ttggTTATTG atggggGACA	aattggggAT	240	
ggccAGAGCC ccGAGTGTG ccttggCTCA actgtggTTG atttGTCGT	gcccggAAAG	300	
tttggcatca ttCGTCCAGG gtgtgcCTGg gaaAGTACTA cAGCCATCCT	ccaacAGAAAG	360	
tacggactgc tcccCTCACA tgcgtcCTAC ctgtGAAACT ctggGAAGCA	ggaaggcccc	420	
agacCTGGTG ctggataCTA tGtGTCGTc cactgacGAC tGtcaaggCC	tcatttgcAG	480	
aggCCACCGG agctAGGGCA ctAGCCTGAC tttaAGGCA gtgtgtCTT	ctgAGGCACTG	540	
tagACCAAGC ctttggAGCT gctggTTAG ctttgcACCT ggggAAAGGA	tGtattttATT	600	
tGtattttCA tataTCAGCC aaaAGCTGAA tggAAAAGTT aagaACATTC	tGtGTCGCC	660	
ttatttCTAAT aagtTTCTTC tGtCTGTTT gttttCAAT tGAAAAGTAA	ttaaATAACA	720	
gatttagAAT ctGtGAGAG ctttgcCTCTC gggggTGGTg GcatttAAGG	ttcaACCCAn	780	
ccnAGAAGTG ctGcGCTGTT taaaaAGTCT cAGGtGGCTG cGtGtGGTGG	ctcatGcCTG	840	
taatCCCAAC attctGGGAG gcccAGGcGG gagaACTGCT tgAGCCAGG	agttcAGAAT	900	
cAGCCTGGC AACATAGCAA tactCCGTCT cataAAATT aataAAATAAA	aagtctcAGG	960	

tgaccaaagg	ctcctgaagc	tagaaccagg	tttgataaa	gattgaagag	ccacaggcca	1020
ctctccctc	tgagccattg	ggccttagtgg	tgtcatgtat	tgtaattgct	cgcaaggaga	1080
gcagtcttt	tgggtataa	gtggatgtc	tgcttagttg	gcaggggttc	agtccaaatg	1140
gaagaatatt	gggaaataaa	cctcnctat	ccttatagc	cagggactt	tttcttattt	1200
attcataaaa	taaattatac	ccataacacc	tttatttaaa	tccagtgtc	ttccgagcct	1260
tccgagcct	tttgcattt	tatgtgtta	ccaagtgtta	aacataatta	ttatggca	1320
tttgaacntg	ttttcnnta	naganatnct	gnnattaaac	atattgtta	atggaaaaaa	1380
aaaaaaaaa						1387

<210> 4  
 <211> 930  
 <212> DNA  
 <213> *Mus musculus*

<400> 4						
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ccggcgctgc	cggggggcccg	gctgctgcgg	cttccggaga	gcgagcccg	ggaagcccg	180
agccccgagc	gcgcggctg	gaccgaggcg	ctgcggccg	ccgtggccg	gctgcgcgc	240
ggccgcgtgg	tggcggtccc	gaccgacacg	ctctacggcc	tggcctgtc	ggcagcagc	300
tcggcgccc	ttagttgcgt	gtaccgcctc	aaaggccga	gcgaggccaa	gccgctggcc	360
gtgtgcctgg	gccgcgtggc	cgacgtctac	aggtactgtc	aggtgagagt	acctaggag	420
ctcctggaaag	acctgttccc	aggccctgtg	accctggta	tggagcgtc	cgaggagctc	480
aacaaagacc	tgaaccctt	tactcgtctt	gttggcatcc	ggattcctga	ccatgccttc	540
atgctggact	tggcccagat	gttggggga	ccacttgcac	tcactagtgc	caacccatgc	600
tcccaaggca	gttctctgag	tgttggaggag	ttccaagacc	tctggcctca	tttgcctt	660
gtcattgtat	ggggggccat	tggggatagt	cagagccctg	agtgtcgct	cggctctact	720
gtgggtgact	tatcttgcc	tgaaagttt	ggcattattc	gcccaggctg	tgcctggaa	780
aacactacat	cgatcccca	gcagaaatat	gggctgctcc	cttcacaggg	gtcctgttca	840
tgaaacttgg	gaggacccaa	ggacatgtc	gatactatgt	gtctgtact	ggatgcaaag	900
cctcattgcc	tgaggttcc	acatctata				930

<210> 5  
 <211> 280  
 <212> PRT  
 <213> *Mus musculus*

<400> 5																			
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							20			25		30							
Leu	Leu	Leu	Pro	Pro	Glu	Pro	Ala	Pro	Ala	Leu	Pro	Gly	Ala	Arg	Leu				
							35			40		45							
Leu	Arg	Leu	Pro	Glu	Ser	Glu	Pro	Val	Glu	Ala	Ala	Ser	Pro	Glu	Arg				
							50			55		60							
Ala	Gly	Tyr	Thr	Glu	Ala	Leu	Arg	Ala	Ala	Val	Ala	Glu	Leu	Arg	Ala				
							65			70		75			80				
Gly	Ala	Val	Val	Ala	Val	Pro	Thr	Asp	Thr	Leu	Tyr	Gly	Leu	Ala	Cys				
							85			90		95							
Ser	Ala	Ser	Ser	Ala	Ala	Leu	Ser	Cys	Val	Tyr	Arg	Leu	Lys	Gly					
							100			105		110							
Arg	Ser	Glu	Ala	Lys	Pro	Leu	Ala	Val	Cys	Leu	Gly	Arg	Val	Ala	Asp				
							115			120		125							
Val	Tyr	Arg	Tyr	Cys	Gln	Val	Arg	Val	Pro	Arg	Glu	Leu	Leu	Glu	Asp				
							130			135		140							
Leu	Phe	Pro	Gly	Pro	Val	Thr	Leu	Val	Met	Glu	Arg	Ser	Glu	Glu	Leu				

145	150	155	160												
Asn	Lys	Asp	Leu	Asn	Pro	Phe	Thr	Arg	Leu	Val	Gly	Ile	Arg	Ile	Pro
165	170	175													
Asp	His	Ala	Phe	Met	Leu	Asp	Leu	Ala	Gln	Met	Phe	Gly	Gly	Pro	Leu
180	185	190													
Ala	Leu	Thr	Ser	Ala	Asn	Leu	Ser	Ser	Gln	Ala	Ser	Ser	Leu	Ser	Val
195	200	205													
Glu	Glu	Phe	Gln	Asp	Leu	Tyr	Pro	His	Leu	Ser	Leu	Val	Ile	Asp	Gly
210	215	220													
Gly	Pro	Ile	Gly	Asp	Ser	Gln	Ser	Pro	Glu	Cys	Arg	Leu	Gly	Ser	Thr
225	230	235	240												
Val	Val	Asp	Leu	Ser	Val	Pro	Gly	Lys	Phe	Gly	Ile	Ile	Arg	Pro	Gly
245	250	255													
Cys	Ala	Leu	Glu	Asn	Thr	Thr	Ser	Ile	Leu	Gln	Gln	Lys	Tyr	Gly	Leu
260	265	270													
Leu	Pro	Ser	Gln	Gly	Ser	Cys	Ser								
275	280														

<210> 6  
 <211> 702  
 <212> DNA  
 <213> Bos taurus

<400> 6

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cccgctggcc	gacgtctaca	ggtaactgcca	cgtgagagta	cctgaggggc	tcctgaagga	180
cctgttgcca	ggaccagtga	ccctgggtgat	ggaacgctca	gaggagctca	acaaggacct	240
gaatcctttc	actcctcttg	taggcatccg	gattcctgac	cacgccttca	tgcaggactt	300
ggtccagatg	tttggggggc	cactcgctct	caccagtgcc	aacctcagct	cccagtccag	360
ctctctgaat	gtttaggaat	tccaggacct	gtggcctcac	ttgtccctga	tcattggtgg	420
gggaccaatt	ggggacggcc	agagcccaga	gtgtcgacta	ggctcaactg	tggttgactt	480
gtctgtgcct	ggaaaagtttgc	gcatcattcg	tcctggttgt	gcccttgaaa	gtacttcagc	540
catcctccag	gagtagggc	tgctcccttc	acatggatcc	tgctggtgac	actctggagg	600
aggaaaggcc	caagggctgg	tgctggacac	tatgtgtccg	actgctggtg	gttggcaagg	660
cctcatttgc	agaggctgct	agggctacag	tgttagtagt	ct		702

<210> 7  
 <211> 126  
 <212> PRT  
 <213> Bos taurus

<400> 7

Met	Glu	Arg	Ser	Glu	Glu	Leu	Asn	Lys	Asp	Leu	Asn	Pro	Phe	Thr	Pro
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20	25	30													
Gln	Met	Phe	Gly	Gly	Pro	Leu	Ala	Leu	Thr	Ser	Ala	Asn	Leu	Ser	Ser
35	40	45													
Gln	Ser	Ser	Ser	Leu	Asn	Val	Glu	Glu	Phe	Gln	Asp	Leu	Trp	Pro	His
50	55	60													
Leu	Ser	Leu	Ile	Ile	Gly	Gly	Pro	Ile	Gly	Asp	Gly	Gln	Ser	Pro	
65	70	75													
Glu	Cys	Arg	Leu	Gly	Ser	Thr	Val	Val	Asp	Leu	Ser	Val	Pro	Gly	Lys
85	90	95													
Phe	Gly	Ile	Ile	Arg	Pro	Gly	Cys	Ala	Leu	Glu	Ser	Thr	Ser	Ala	Ile
100	105	110													

Leu Gln Glu Tyr Gly Leu Leu Pro Ser His Gly Ser Cys Trp  
115 120 125

<210> 8  
<211> 841  
<212> DNA  
<213> Rattus novartis

<220>

<221> misc\_feature  
<222> (491)..(491)  
<223> The letter "z" stands for sequence hybridizing.

<400> 8

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aaatatgggc	tgctcccttc	acaggggtcc	tgttcatgaa	acttgggagg	acccaagaac	180
catgctggat	actatgtgtc	tactacaggt	tggcaaagcc	tcattggctg	aggttcctgg	240
agctacatct	gtagccttagc	tttttaggca	gtgtccttgg	ctctgaatcc	tgtaggccag	300
ccagaagctt	cgggttggc	cttgcacccca	ggggaaagggtt	atatttactc	tgtagattca	360
tgtgtcaacc	cagaatggag	ggaagaacat	tcttagagtg	accttattat	tttaagtgcc	420
cctctcaccc	caaccctgcc	tataagttaa	gtaacttgac	tgcagaattta	gaatgcatta	480
agagctgctt	actggtaac	agtgaaattt	ggtttaaaac	cagccagaag	cactaatgca	540
gtctagaagt	ctcaggacca	atgcagcaaa	gtctaggagc	cctggccaga	gctttctggg	600
tacaggagag	tggtcatttgc	gagaaaattt	ttcttaggagt	tccaaatgaa	ataatattga	660
aaaataaaat	cttgactgtt	ttcagccagt	gactttctta	tttattggta	tagttctctg	720
tttaatttat	ttaactcaga	agtcatctt	gttcatatgt	ctacctggta	tttacataat	780
tatTTtaag	tatTTgaact	gtatTTctt	attaaatatt	tcttctacaa	aaaaaaa	840
a						841